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	Application No.	Applicant(s)	7
	00/969 577	IVANA CARL RIVOLUDO	
Notice of Allowability	09/868,577 <b>Examiner</b>	KAWASAKI, KIYOHIRO Art Unit	
,			
	Brian L. Mutschler	1753	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT Ricof the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED in this apport of the appropriate communication  HTS. This application is subject to	plication. If not included will be mailed in due course. <b>TH</b> .	IS iative
1. X This communication is responsive to supplemental amenda	nent filed 24 September 2004.		
2. ☑ The allowed claim(s) is/are <u>3-12 and 21</u> .			
3. X The drawings filed on 25 February 2004 are accepted by th	e Examiner.		
4. ⊠ Acknowledgment is made of a claim for foreign priority und a) ⊠ All b) ☐ Some* c) ☐ None of the:	der 35 U.S.C. § 119(a)-(d) or (f).		-9
<ol> <li>Certified copies of the priority documents have</li> </ol>	been received.		
2. Certified copies of the priority documents have	been received in Application No	·	
<ol><li>Copies of the certified copies of the priority doc</li></ol>	uments have been received in this r	national stage application from the	е
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:	P <sub>a.</sub> ¥§ .		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONME THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	f this communication to file a reply of this application.	complying with the requirements	
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives	ted. Note the attached EXAMINER's reason(s) why the oath or declarat	S AMENDMENT or NOTICE OF ion is deficient.	
6. CORRECTED DRAWINGS ( as "replacement sheets") must	be submitted.		
(a) ☐ including changes required by the Notice of Draftsperso		948) attached	
1) hereto or 2) to Paper No./Mail Date		,	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the O	ffice action of	
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	4(c)) should be written on the drawin	gs in the front (not the back) of	
7. DEPOSIT OF and/or INFORMATION about the depos	- ·	•	
attached Examiner's comment regarding REQUIREMENT F	OR THE DEPOSIT OF BIOLOGICA	AL MATERIAL.	
Attachment(s)			
1. Notice of References Cited (PTO-892)		atent Application (PTO-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6.  ☐ Interview Summary ( Paper No./Mail Date		
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	), 7. Examiner's Amendm		
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Statemer	nt of Reasons for Allowance	

of Biological Material

9. Other \_\_\_\_.

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## **REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance:

The instant invention is distinguished over the prior art of record by providing a system and process for detecting pinholes in a an active substrate requiring the combination including an electrode covered with an insulating layer, a reversed polarity electrode plate, chemical solution confining means for confining the chemical solution to a specified region of the substrate, and chemical solution supplying and discharging means for supplying and discharging the chemical solution to and from the substrate. In another embodiment (claim 12), the process requires a frame-shaped container having a flexible sealing material around the open of one end. The prior art of record neither teaches nor suggests the combination of elements recited in the instant claims.

Wood discloses an apparatus and method for detecting pinholes in a substrate comprising chemical solution confining means for confining the chemical solution to a specified location (see US '795 at Figures 2 and 4). However, unlike the instant invention, the apparatus and process disclosed by Wood relies upon capillary action to confine the chemical solution. Capillary action requires small amounts of liquid and closely spaced features. In addition, capillary action would not work with the claimed supply and discharge means because such means would more than likely overcome the capillary forces required to control and confine the liquid solution. Regarding the embodiment recited in claim 12, the confinement means disclosed by Wood do not have sealing material because they do physically contact the substrate. Since it would not be possible to use a supplying and discharging means in the apparatus of Wood, one

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skilled in the art would not have been motivated to make such a modification. Similarly, a frame-shaped container with a flexible sealing material around the opening would defeat Wood's intended use of the apparatus by preventing confinement by capillary action.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian L. Mutschler whose telephone number is (571) 272-1341. The examiner can normally be reached on Monday-Friday from 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**BLM** 

September 30, 2004

NAM NGUYEN

SUPERVISORY PATENT EXAMINER